65/2

OIPE

RAW SEQUENCE LISTING DATE: 11/09/2001 PATENT APPLICATION: US/09/981,124 TIME: 10:23:22

Input Set : A:\es.txt

Output Set: N:\CRF3\11092001\I981124.raw

							, -	•		•						
3	<110>	APPLIC	: TAAC	Gre	en,	Alla	ın									
4		Singh,														
5		Lenmar														
6		Stymne														
	<120>				ITION	1: F <i>P</i>	YTT	ACII) EP	XYGI	ENASI	E GEN	IES I	ROM	PLAN	ITS AND USES THEREFOR
IN MODIE																
9		FATTY	ACID) MEI	'ABOI	ISM										
11	<130>	FILE F	REFER	RENCE	E: 26	-984	A					Λ				
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	<400>				· + +	+ = + 6	7220	atα	aat	acc	ασο	ααt	cat	aat	caa	53
44	gagaag	iciga (Juala	iaall	ia ci	Lac	Jaac		Gly							33
46								1	OLY	AIU	017	5	**** 9	O±1	9	
	aca to	מ מפ	aaa	tca	atc	atσ	σаа	-	atc	t.ca	at.t.		cca	σta	acc	101
	Thr Se															
50	101		275	DC1	, 41	15		9			20					
	ttc to		aσt.	σaa	tta		caa	σca	atc	cct	ccc	cat	tqc	ttc	cag	149
53	Phe Se	er Leu	Ser	Ğlu	Leu	Lys	Gln	Ála	Ile	Pro	Pro	His	Cys	Phe	Gln	
	25				30					35			-		40	
	aga to	t qta	atc	cqc	tca	tct	tac	tat	gtt	gtt	caa	gat	ctc	att	att	197
	Arg Se															
58	~			45			-	-	50					55		
60	gcc ta	c atc	ttc	tac	ttc	ctt	gcc	aac	aca	tat	atc	cct	act	ctt	cct	245
61	Ala Ty	r Ile	Phe	Tyr	Phe	Leu	Ala	Asn	Thr	\mathtt{Tyr}	Ile	Pro	Thr	Leu	Pro	
62			60					65					70			
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65	Thr Se	er Leu	Ala	Tyr	Leu	Ala	Trp	Pro	Val	Tyr	Trp	Phe	Cys	G1n	Ala	

RAW SEQUENCE LISTING DATE: 11/09/2001 PATENT APPLICATION: US/09/981,124 TIME: 10:23:22

Input Set : A:\es.txt

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66			75					80					85				
68 a	ac i	atc		act	aac	t.t.a	t.aa		ctc	aac	cac	σaa		aat	cac	cat	341
69 S																	
70		90			- 1		95			1		100		2			
			agc	aac	tac	aca	taa	ttt	qac	qac	act	gtg	ggc	ttc	atc	ctc	389
															Ile		
74 1					- 4 -	110	•		•	-	115		•			120	
		tca	ttt	ctc	ctc	acc	ccq	tat	ttc	tct	taa	aaa	ttc	agt	cac	cgg	437
															His		
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80 a	at .	cac	cat	tcc	aac	aca	agt	tcq	att	gat	aac	gat	gaa	gtt	tac	att	485
81 A																	
82				140					145	-		_		150	_		
84 C	cq	aaa	aqc	aaq	tcc	aaa	ctc	gcg	cgt	atc	tat	aaa	ctt	ctt	aac	aac	533
85 P																	
86		_	155	_		_		160					165				
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90		170					175					180					
92 c																	629
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94 1						190					195					200	
96 g																	677
97 A	la	Asn	His	Phe	Asp	Pro	Met	Ser	Pro	Ile	Phe	Lys	Glu	Arg	Glu	Arg	
98					205					210					215		
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102				220					225					230	_		777
																atg	773
	He	Lys			a val	. Ala	. Asn			Ala	A A L	Tr			a Cys	Met	
106			235					240					245		+-		821
																acc	021
109 !	туг	_		. Pro	ya.	. Let			L PIIE	: 1111	PHE	260		va.	r ire	: 1111	
110		250					255		. +		- 02+			- ta:	a act		869
																gaa Glu	009
114		ьеч	HIS	HIS	3 1111	. nis		. sei	. ser	PIC	275		. ASE	se.	r 1111	280	
116		226	+ 44	+.				++	, ta	a a a			- a.r.c	r mar	~ +++		917
																Gly	21,
118	тъ	ASI.	1 115	, 116	285	_	ALU	ДСС	ı bei	290			, ,,,,	,,	295		
120	++~	cto	raat	ant			cat	σat	· att			act	cat	ato			965
121																	
122	1 110	100		300					305					310			
124	cat	t.t.o	rttt			att	. cca	cac			gca	aac	r gad			gat	1013
125																	
126			315		- 4 -			320				•	325		_	-	
	qca	ato			ato	tto	qqc			tat	ato	ato			g act	cca	1061
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130		330					335			-		340		•	-		

RAW SEQUENCE LISTING

DATE: 11/09/2001 PATENT APPLICATION: US/09/981,124 TIME: 10:23:22

Input Set : A:\es.txt

Output Set: N:\CRF3\11092001\1981124.raw

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	345					350					355					360	
136	CCL	gat	ago	aag	ctc	aaa	ggt	gtt	tat	tgg	tat	cat	aaa	ttg	•		1151
138		ASP	ser	гуѕ	365		GIY	vaı	Tyr	_	_	His	Lys	Leu			
		+02+	2+4	~			+~~			370		4-4					
140	aat	aaan	acy	caaa	acyc	ac a	ttaa	atat	c aa	tooc	ccta	gtt	acgt	ttg	ttct	atgtat taatat	1211
111	caa	tato	eta	tata	2+42	Ly y	tiya tata	tac taat	9 CC + ~+	caag	ccag	gcg	aaac	agt	taaa	taatat aagtat	1271
146	ata	atta	tca	gtca	acya	aa y aa a	aaaa	Lyy L a a	ı yı	ctgg		guu	geta	Lga	aaga	aagtat	1331
				D NO		uu u	auuu	au									1358
				H: 3													
				PRT													
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160	Arg	Val	Ser	Val	Asp	Pro	Val	Thr	Phe	Ser	Leu	Ser	Glu	Leu	Lys	Gln	
161				20					25					30			
	Ala	Ile	Pro	Pro	His	Cys	Phe	Gln	Arg	Ser	Val	Ile	Arg	Ser	Ser	Tyr	
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	\mathtt{Tyr}		Val	Gln	Asp	Leu		Ile	Ala	\mathtt{Tyr}	Ile	Phe	Tyr	Phe	Leu	Ala	
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		Thr	Tyr	Ile	Pro		Leu	Pro	Thr	Ser		Ala	\mathtt{Tyr}	Leu	Ala	Trp	
173		*** 1		_	_1	70			_	_	75	_				80	
177	Pro	vaı	Tyr	Trp		Cys	GIn	Ala	Ser		Leu	Thr	Gly	Leu	_	Ile	
177	T 011	C1	II i a	C1	85	a 1	77.2 ~	TT -	21-	90	_	_	_	_,	95		
181	ьеи	СТУ	птѕ	100	Cys	СТА	HIS	HIS	Ala 105	Pne	ser	Asn	Tyr		Trp	Phe	
	Agn	Δen	Фhr		G1 _V	Dho	Tlo	T 011	His	Cor	Dho	T 0.11	т о	110	D	m	
185	nsp	пор	115	vui	Gry	FILE	116	120	птэ	ser	Pile	ьeu	125	THE	Pro	Tyr	
	Phe	Ser		Lvs	Phe	Ser	His		Asn	His	Hic	Ser		Thr	Sar	Sor	
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192	Ile	Asp	Asn	Asp	Glu	Val		Ile	Pro	Lvs	Ser		Ser	Lvs	Leu	Ala	
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208	Pro	Ile	Phe	Lys	Glu	Arg		Arg	Phe	Gln	Val		Leu	Ser	Asp	Leu	
209	C1	210	T	21-	17- 3	n1	215			_		220		_			
212 212	стА	ьeu	ьеи	Ата	va⊥		туr	GTA	Ile	Lys		Ala	Val	Ala	Asn		
213		λ1 =	λ1-5	m~~	Tra 1	230	C	Wo+		01	235	D	17- 3	. .	a 1	240	
217	атй	мта	мта	ттЪ	245	HTG	Cys	мес	Tyr		vaı	Pro	val	ьeu		val	
	Phe	Thr	Ph≏	Ph△		Val	T1_	Th∽	Phe	250	ui a	ui ~	mb∽	TT 4 ~	255	Com	
221			- 116	260	чэр	4 U I	TTE		265	ьец	uis	uis	LIII		GID	ser	
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RAW SEQUENCE LISTING DATE: 11/09/2001 PATENT APPLICATION: US/09/981,124 TIME: 10:23:22

Input Set : A:\es.txt

Output Set: N:\CRF3\11092001\I981124.raw

224 225		Pro	His 275		Asp	Ser	Thr	Glu 280	Trp	Asn	Trp	Ile	Arg 285	Gly	Ala	Leu	
	Ser	Ala 290			Arg	Asp	Phe 295		Phe	Leu	Asn	Ser 300		Phe	His	Asp	
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	305	•		_		310					315					320	
		His	Ala	Lys		Ala	Arg	Asp	Ala		Lys	Pro	Ile	Leu	Gly	Asp	•
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		Tyr	Met			Arg	Thr	Pro		Leu	Lys	Ala	Met	Trp	Arg	Glu	
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		Arg			Met	Tyr	Ile		Pro	Asp	Ser	Lys		Lys	Gly	Val	
245			355					360					365				
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277								Met	Gly	Ala	Gly	Gly	Arg	Gly	Arg	Ser	
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							cgt										100
		Lys	Ser	Val	Met		Arg	Val	Ser	Val	Asp	Pro	Val	Thr	Phe		
282						15					20					25	
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	Leu	Ser	Asp	Leu		Gln	Ala	Ile	Pro	Pro	His	Cys	Phe	Gln	Arg	Ser	
286					30					35					40		
							tac										196
	Val	Ile	Arg		Ser	\mathtt{Tyr}	Tyr	Val		Gln	Asp	Leu	Ile	Ile	Ala	${ t Tyr}$	
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292	atc	ttc	tac	ttc	ctt	gcc	aac	aca	tat	atc	cct	aat	ctc	cct	cat	cct	244
	Ile	Phe		Phe	Leu	Ala	Asn		Tyr	Ile	Pro	Asn		Pro	His	Pro	
294			60					65					70				
							ccg										292
	Leu		Tyr	Leu	Ala	Trp	Pro	Leu	Tyr	Trp	Phe		Gln	Ala	Ser	Val	
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RAW SEQUENCE LISTING DATE: 11/09/2001 PATENT APPLICATION: US/09/981,124 TIME: 10:23:23

Input Set : A:\es.txt

Output Set: N:\CRF3\11092001\1981124.raw

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	305					Trp												700
	306					110					115					120		
						ccg												436
	310	PHE	ьец	ьeu	125	Pro	TYL	Pile	ser	130	ьуs	Tyr	ser	HIS	Arg	Asn	HIS	
		cat	tcc	aac		agt	tcg	att	gat		gat	qaa	att	tac		cca	aaa	484
	313	His	Ser	Asn	Thr	Ser	Ser	Ile	Asp	Asn	Asp	Ğlu	Val	Tyr	Ile	Pro	Lys	
	314			140					145					150				
	316	agc	aag	tcc	aaa	ctc	aag	cgt	atc	tat	aaa	ctt	ctt	aac	aac	cca	cct	532
	317	ser	155	ser	ьуѕ	Leu	ьуs	160	ire	Tyr	ьys	ьеи	165	Asn	Asn	Pro	Pro	
		ggt		ctg	ttg	gtt	ttg		atc	atq	ttc	acc		σσα	ttt	cct	tta	580
	321	Gly	Arg	Leu	Leu	Val	Leu	Val	Ile	Met	Phe	Thr	Leu	Gly	Phe	Pro	Leu	500
	322	170					175					180					185	
						aat												628
	325	Tyr	Leu	Leu	Thr	Asn 190	IIe	Ser	GLY	Lys		Tyr	Asp	Arg	Phe		Asn	
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	329	His	Phe	Asp	Pro	Met	Ser	Pro	Ile	Phe	Lvs	Glu	Ara	Glu	Ara	Phe	Gln	0/0
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	334	att	aat	220 ata	44	aat	222	~~~	225	act.	+~~	~+~	~~~	230				770
	337	Val	Ala	Val	Ala	Asn	Lvs	Glv	Ala	Ala	Trn	y Ly Val	g C g	Cve	Met	Tur	gga Glv	772
	338	,	235				-12	240				, 41	245	Cys	ncc	111	GLY	
	340	gtt	ccg	gtg	cta	ggc	gta	ttt	acc	ttt	ttc	gat	gtg	atc	acg	ttc	tta	820
			Pro	Val	Leu	Gly		Phe	Thr	Phe	Phe		Val	Ile	Thr	Phe		
	342		~~~	200	an+		255	.				260					265	0.50
	344	His	His	Thr	Hie	cag Gln	Ser	Ser	Pro	Cat	Tur	gat	Cor	act Thr	gaa	Tgg	aac	868
	346					270	001	DCI	110	1113	275	nsp	561	1111	GIU	280	ASII	
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M>		Trp	Ile	Arg		Ala	Leu	Ser	Ala		Asp	Xaa	Asp	Phe	_	Phe	Leu	
W >	350	22+	244	a++	285	aa+	~ -+	~+w		290					295		4.4	254
W>	353	Asn	Ser	Val	Phe	His	Asn	yun Val	Thr	Cac Hic	Thr	CaC Hie	gtc Val	atg Mot	Cat	Cat	ttg	964
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	357	Phe	Ser	Tyr	Ile	Pro	His	Tyr	His	Ala	Lys	Glu	Ala	Arg	Asp	Ala	Ile	
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						ggc Gly												1060
	362		£10	TT6	neu	gry	335	FIIE	тАт	MEL	тте	340	нтд	THE	PT.O	тте	ьеи 345	
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Use of n and / or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to ensure a corresponding explanation is present in the <220> to <223> fields of each sequence using n or Xaa.

VERIFICATION SUMMARY

DATE: 11/09/2001 PATENT APPLICATION: US/09/981,124 TIME: 10:23:24

Input Set : A:\es.txt

Output Set: N:\CRF3\11092001\I981124.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application No L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date L:348 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 $L\colon\!349$ $M\colon\!341$ W: (46) "n" or "Xaa" used, for SEQ ID#:3 L:352 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 L:473 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 L:1561 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 $L:1580 \ M:341 \ W: \ (46) \ "n" \ or "Xaa" \ used, for SEQ ID#:22$ L:1598 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 L:1616 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24